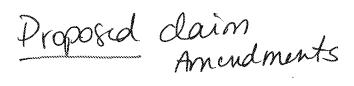
07/28/2008 10:13 608-251-9166

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) A method of screening a human subject for susceptibility to type 2 diabetes comprising the steps of:
 - (a) determining the SorCS1 cDNA sequence of the subject;
 - (b) deducing the amino acid sequence encoded by the sequenced cDNA;
- comparing the deduced SorCS1 amino acid sequence with a reference (c) sequence, SEQ ID NO:4; and
- (d) screening for a difference in the deduced amino acid sequence relative to reference SEQ ID NO:4, the difference consisting of an amino acid a change from a threonine to a icoleucine at position 52 of the human SorCS1 amino acid sequence, and wherein the difference is indicative of associated with susceptibility to type 2 diabetes.
- 2. (Currently Amended) A method of screening a human subject for susceptibility to type 2 diabetes comprising the steps of:
 - determining the SorCS1 cDNA sequence of the subject; (a)
- (b) comparing the determined SorCS1 cDNA sequence with a reference sequence, SEO ID NO:3; and
- screening for a difference at nucleotide position 163 in the determined sequence relative to reference SEQ ID NO:3, the difference consisting of a change from a cytosine to a thymine at nucleotide position 163, wherein the nucleotide difference at position 163 of the human SerCSI cDNA sequence is indicative of accociated with susceptibility to type 2 diabetes.
 - 3. -12. (cancelled).

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- 13. (New) A method of screening a human subject for susceptibility to type 2 diabetes comprising the steps of:
 - (a) determining the SorCS1 cDNA sequence of the subject;
 - (b) deducing the amino acid sequence encoded by the sequenced cDNA;
- (c) comparing the deduced SorCS1 amino acid sequence with a reference sequence, SEQ ID NO:4; and
- (d) screening for a difference in the deduced amino acid sequence relative to reference SEQ ID NO:4, the difference consisting of an amino acid change at position 52 of the human SorCS1 amino acid sequence, and wherein the difference is indicative of susceptibility to type 2 diabetes.
- 14. (New) A method of screening a human subject for susceptibility to type 2 diabetes comprising the steps of:
 - (a) determining the SorCS1 cDNA sequence of the subject;
- (b) comparing the determined SorCS1 cDNA sequence with a reference sequence,
 SEO ID NO:3; and
- (c) screening for a difference at nucleotide position 163 in the determined sequence relative to reference SEQ ID NO:3, the difference consisting of a change at nucleotide position 163, wherein the difference is indicative of susceptibility to type 2 diabetes.